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APPLICATION NO.	CATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/681,993 07/05/2001		Peter L. Andresen	RD-29318	8489	
6147	7590	10/22/2003		: EXAMINER	
021,214		RIC COMPANY H CENTER	THORNTON, KRISANNE MARIE		
PATENT D			ART UNIT	PAPER NUMBER	
PO BOX 8,			1744		
NISKAYUI	NA, NY	12309	DATE MAILED: 10/22/2003		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.		Applicant(s)	R
		09/681,993		ANDRESEN ET AL.	
	Office Action Summary	Examiner		Art Unit	
		Krisanne M. Thor		1744	
Period fo				•	s
THE I - Externanter - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statuely received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, howe ply within the statutory min d will apply and will expire s te, cause the application to	ver, may a reply be tim mum of thirty (30) days SIX (6) MONTHS from become ABANDONE	nely filed s will be considered timely. the mailing date of this commur D (35 U.S.C. § 133).	nication.
1)	Responsive to communication(s) filed on	·			
2a) <u></u>	This action is FINAL . 2b)⊠ T	his action is non-fi	nal.		
3)□ Dispositi	Since this application is in condition for allow closed in accordance with the practice unde on of Claims				erits is
4)⊠	Claim(s) 1-98 is/are pending in the application	on.			
	4a) Of the above claim(s) is/are withdr	awn from considera	ation.		
5) 🗌	Claim(s) is/are allowed.				
6)⊠	Claim(s) <u>1-98</u> is/are rejected.				
7)	Claim(s) is/are objected to.				
8) 🗌	Claim(s) are subject to restriction and/	or election requirer	nent.		
Applicati	on Papers				
9)🛛 -	The specification is objected to by the Examin	er.			
10) 🗌 -	The drawing(s) filed on is/are: a)☐ acc	epted or b) objecte	ed to by the Exar	miner.	
	Applicant may not request that any objection to t	he drawing(s) be held	d in abeyance. Se	ee 37 CFR 1.85(a).	
11) 🔲 -	The proposed drawing correction filed on	is: a)∏ approve	d b)⊡ disappro	ved by the Examiner.	
	If approved, corrected drawings are required in re	eply to this Office act	ion.		•
12) 🔲 🗀	Γhe oath or declaration is objected to by the Ε	xaminer.			
Priority u	ınder 35 U.S.C. §§ 119 and 120				
13)	Acknowledgment is made of a claim for foreign	gn priority under 35	U.S.C. § 119(a))-(d) or (f).	
a)[☐ All b)☐ Some * c)☐ None of:				
	1. Certified copies of the priority documer	nts have been recei	ved.		
	2. Certified copies of the priority documer	nts have been recei	ved in Application	on No	
* S	3. Copies of the certified copies of the pri- application from the International B see the attached detailed Office action for a lis	ureau (PCT Rule 1	7.2(a)).		e
14) <u></u> A	cknowledgment is made of a claim for domes	tic priority under 35	5 U.S.C. § 119(e	e) (to a provisional app	lication).
a	The translation of the foreign language polychowledgment is made of a claim for domes	rovisional application	n has been rec	eived.	,
Attachment					
2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449) Paper No(s)	5) 🗌		(PTO-413) Paper No(s) Patent Application (PTO-152	
J.S. Patent and Tr PTOL-326 (R		Action Summary		Part of Pape	er No. 6

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DETAILED ACTION

Specification

The abstract of the disclosure is objected to because of the inclusion of legal phraseology such as "comprises". Correction is required. See MPEP § 608.01(b).

Claim Objections

Claims 80-84 and 98 are objected to because of the following informalities: the preamble of claims 80-84 refers to "The method", however, claim 76 from which they depend, is set forth as "The system". Appropriate correction is required.

With respect to claim 98, this claim is missing it's numerical identifier.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of

the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-98 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fulton et al., U.S. patent No. 6,316,377 in view of Hettiarachchi et al., U.S. patent No. 5,602,888.

Fulton et al., formation of catalytic nanoparticles that exhibit exceptional stability in hydrothermal environments and further teach that such nanoparticles are applied in the corrosion protection coatings for elements within high temperature aqueous conditions. See column 5, lines 35-50.

Hettiarachchi et al., teach the known and expected use of suspensions for the application of catalytic corrosion inhibitors within high temperature reactor environments. See column 4, lines 35-40.

It would have been well within the purview of one of ordinary skill in the art to employ the catalytic nanoparticles as taught in Fulton et al., for corrion inhibition in a conventional format such as that taught by Hettiarachchi et al., with application of the nanoparticles in a colloidal suspension.

With respect to claims 11-12, 21-23 and 56-58, it would have been obvious to one of ordinary skill in the art to determine optimal concentration and delivery

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configurations for the hydrothermal application being treated, including either continuous or intermittent delivery.

With respect to claim 14-17, see claim 8 of Hettiarachchi et al.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krisanne M. Thornton whose telephone number is 703-308-3914. The examiner can normally be reached on Mon.-Wed. 6:30am-4:00pm. On or about December 16, 2003, the examiner will be relocated to a new office, at which time she can be contacted at (571)272-1279.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on 703-308-2920. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

PRIMARY EXAMINER

October 20, 2003